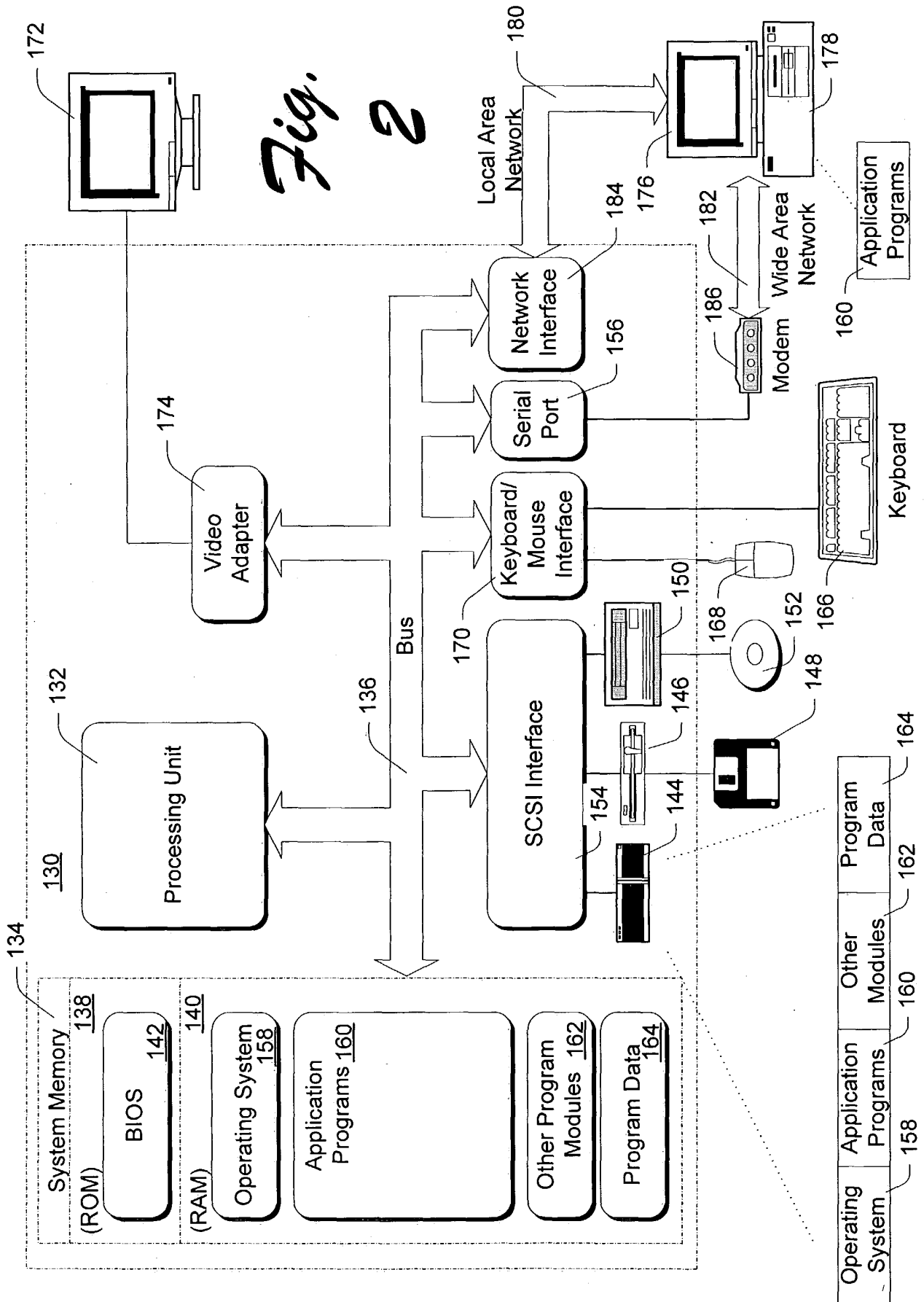


*Fig. 1*



**Regular Expression Escape Characters:**

- +** - At least one or more of the preceding characters or expressions. For example, `ba+c` matches `bac`, `baac`, but not `bc`.
- [ ]** - Any one of the characters contained in the brackets, or any of an ASCII range of characters separated by a hyphen (-). For example, `b[aeiou]d` matches `bad`, `bed`, `bid`, `bod`, and `bud` (but not `bead` or `beed`) and `r[eo]+d` matches `red`, `rod`, `reed`, `rood`, `reod`, `roed`, `reood`, `roeod`, etc.
- ^** - The beginning of a line
- \$** - The end of a line
- \*** - None or more of the preceding characters or expressions. For example, `ba*c` matches `bc`, `bac`, `baac` and so on.
- [^ ]** - Any character except those following the caret (^) character in the brackets, or any of an ASCII range of characters separated by a hyphen (-). For example, `x[^0-9]` matches `xa`, `xb`, `xc`, and so on, but not `x0`, `x1`, `x2`, and so on.
- ( )** - Indicates a tagged expression to retain for replacement purposes. Each occurrence of a tagged expression is numbered according to its order and its replacement expression is `\n`, where 1 corresponds to the first tagged expression, 2 to the second, and so on.
- ( )\ :n** - (*n is an integer between 1 and 255*) Indicates a tagged expression (as above) that needs to be used as the *n*<sup>th</sup>-input parameter for an external `LookUp()` function.
- {c!c}** - Any one of the characters separated by the alternation symbol (!). For example, `{j!u}+fruit` matches `jfruit`, `ufruit`, `jjfruit`, `ujfruit` etc.
- { }** - Any sequence of characters between the escaped braces. For example, `{ju}+fruit` matches `jufruit`, `jujufruit` but not `ufruit`, `jfruit` or `ujfruit`
- \ :a** - Any single alphanumeric character `[a-zA-Z0-9]`
- \ :c** - Any single alphabetic character
- \ :d** - Any decimal digit `[0-9]`
- \ :z** - Any unsigned decimal integer `[0-9]+`
- \ :h** - Any hexadecimal number `[0-9a-fA-F]+`
- \ :w** - Any alphabetic string `[a-zA-Z]+`. The string need not be bounded by white spaces or appear at the beginning or the end of a line
- \ :q** - Any quoted string `{"[^"]*"|'[^']*'}`
- \ N** - (*N is a digit*) The sub-string in the target that matched the *n*th-tagged expression
- \** - Escape character to remove the pattern match characteristics from the special characters listed above. For example, `100$` matches 100 at the end of a line, but `100\$` matches the character string 100\$ anywhere on a line.

*Fig. 3*

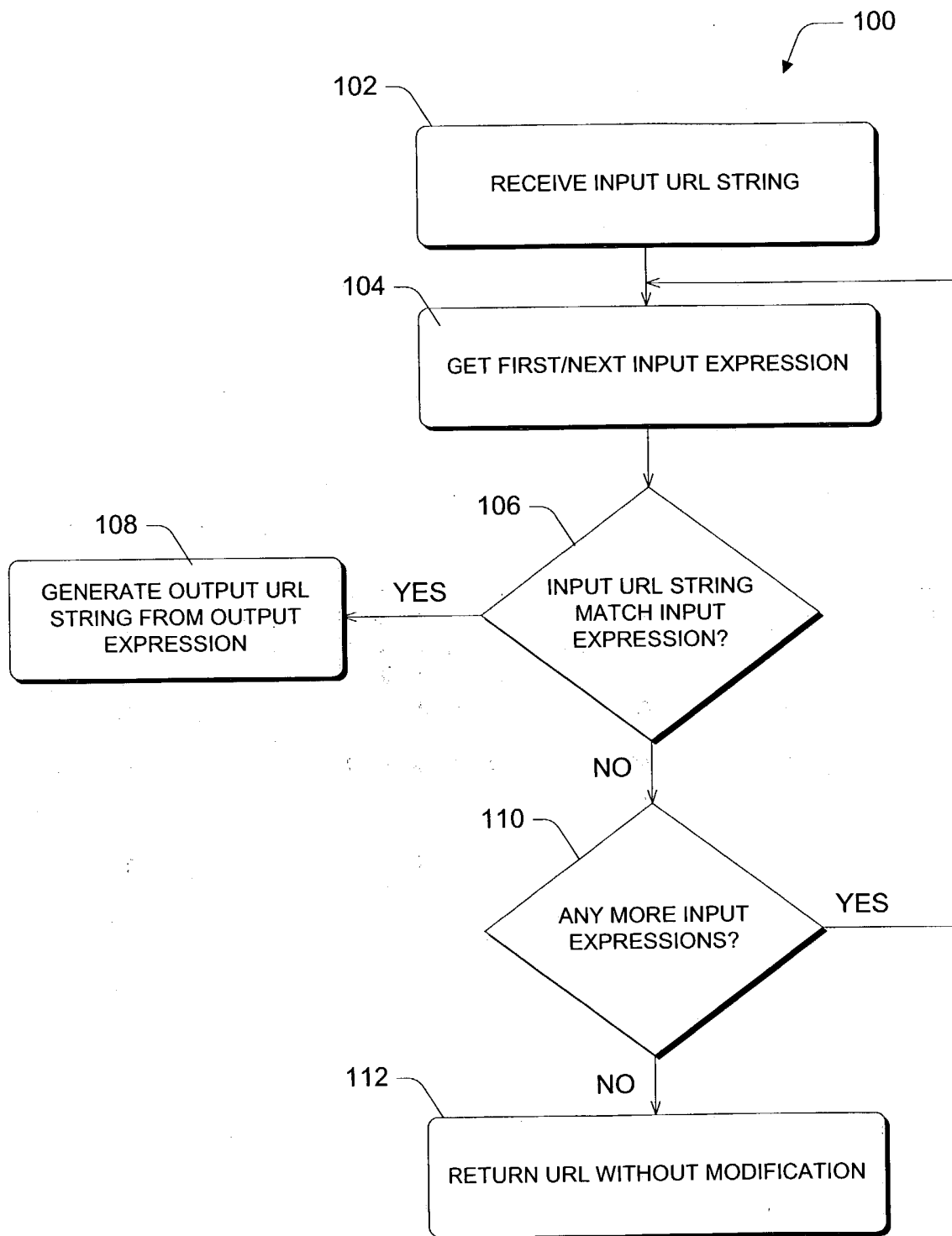


Fig. 4

Group ID = 1, Group Tag = Match One, Group bit-mask = 0x01

Rule ID	Rule Action Type	Input Expression	Output Expression
1	N	^Sidewalk.com/([^\s/]+)	/scripts/city.dll?city=\1
2	N	^Sidewalk.com:/([^\s/]+)	/scripts/city.dll?city=\1
3	N	^Sidewalk.com:80/([^\s/]+)	/scripts/city.dll?city=\1
4	N	^([^\s.]+)/([^\s/]+)	/scripts/city.dll?city=\2
5	N	^([^\s.]+):/([^\s/]+)	/scripts/city.dll?city=\2
6	N	^([^\s.]+):80/([^\s/]+)	/scripts/city.dll?city=\2
7	N	^([^\s.]+).sidewalk.com	/scripts/city.dll?city=\1
8	N	^([^\s.]+).sidewalk.com:	/scripts/city.dll?city=\1
9	N	^([^\s.]+).sidewalk.com:80	/scripts/city.dll?city=\1
10	N	^Www.([^\s.]+).sidewalk.com	/scripts/city.dll?city=\1
11	N	^Www.([^\s.]+).sidewalk.com:	/scripts/city.dll?city=\1
12	N	^Www.([^\s.]+).sidewalk.com:80	/scripts/city.dll?city=\1

*Fig. 5*

Group ID = 2, Group Tag = Match One, Group bit-mask = 0x02

Rule ID	Rule Action Type	Input Expression	Output Expression
1	N	/\$	&LID=1
2	N	/link/(\z)\$	&LID=\1
3	N	/link/(\z)/\$	&LID=\1
4	N	/link/(\z)/(\w)\$	&\2&LID=\1
5	N	/link/(\z)?(\w)\$	&\2&LID=\1
6	N	/detail/(\z)\$	&EID=\1
7	N	/detail/(\z)/\$	&EID=\1
8	N	/detail/(\z)/(\w)\$	&\2&EID=\1
9	N	/detail/(\z)?(\w)\$	&\2&EID=\1
10	N	/([^\/]+)\:1\$	&EID=\(frlkup, 1)
11	N	/([^\/]+)\:1/\$	&EID=\(frlkup, 1)
12	N	/([^\/]+)\:1/(\w)\$	&\2&EID=\(frlkup, 1)
13	N	/([^\/]+)\:1?(\w)\$	&\2&EID=\(frlkup, 1)

*Fig. 6*

Rule ID	Rule Action type	Input Expression	Output Expression
1	N	^Sidewalk.com/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
2	N	^Sidewalk.com:/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
3	N	^Sidewalk.com:80/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
4	N	^([^\s.]+)/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
5	N	^([^\s.]+):/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
6	N	^([^\s.]+):80/([^\s/]+)\s:1	city.dll?scopeid=\(scope, 1)
7	N	^([^\s.]+)\s:1.sidewalk.com	city.dll?scopeid=\(scope, 1)
8	N	^([^\s.]+)\s:1.sidewalk.com:	City.dll?scopeid=\(scope, 1)
9	N	^([^\s.]+)\s:1.sidewalk.com:80	City.dll?scopeid=\(scope, 1)
10	N	^Www.([^\s.]+)\s:1.sidewalk.com	City.dll?scopeid=\(scope, 1)
11	N	^Www.([^\s.]+)\s:1.sidewalk.com:	City.dll?scopeid=\(scope, 1)
12	N	^Www.([^\s.]+)\s:1.sidewalk.com:80	City.dll?scopeid=\(scope, 1)

*Fig. 7*